Author Index to Volume 4

Acharya, B. D.: Spectral Criterion for Cycle Balance in Networks, 1

Alameddine, A. F.: On the Number of Cycles on Length 4 in a Maximal Planar Graph, 417

Asano, T., Nishizeki, T., Watanabe, T.: An Upper Bound on the Length of a Hamiltonian Walk of a Maximal Planar Graph, 315

Avery, P.: Condition for a Tournament Score Sequence to be Simple, 157

Bange, D. W., Barkauskas, A. E., Slater, P. J.: Conservative Graphs, 81

Barefoot, C. A. and Entringer, R. C.: Extremal Maximal Uniquely Hamiltonian Graphs, 93

Barkauskas, A. E.: See Bange, D. W.

Bauer, D.: Line-Graphical Degree Sequences, 219

Beineke, L. W. and Ringeisen, R. D.: On the Crossing Numbers of Products of Cycles and Graphs of Order Four, 145

Bermond, J. C., Germa, A., Heydemann, M. C., Sotteau, D.: Girth in Digraphs, 337

Boesch, F. T. and Suffel, C. L.: Realizability of p-Point Graphs With Prescribed Minimum Degree, Maximum Degree, and Line Connectivity, 363

Broere, I.: See Mynhardt, C. M.

Brualdi, R. A., Harary, F., Miller, Z.: Bigraphs versus Digraphs via Matrices, 51

Buckley, F.: A Ramsey Property for Graph Invariants, 383

Burr, S. A.: A Ramsey-Theoretic Result Involving Chromatic Numbers, 241

—— and Rosta, V.: On the Ramsey Multiplicities of Graphs—Problems and Recent Results, 347

Cameron, P. J.: A Note on Generalized Line Graphs, 243

Chartrand, G., Gould, R. J., and Polimeni, A. D.: On Ramsey Numbers of Forests Versus Nearly Complete Graphs, 233

Delorme, C.: Two Sets of Graceful Graphs, 247

——, Maheo, M., Thuillier, H., Koh, K. M., Teo, H. K.: Cycles With a Chord are Graceful, 409

Donald, A.: An Upper Bound for the Path Number of a Graph, 189

Entringer, R. C.: See Barefoot, C. A.

Faber, V.: See Goldsmith, D. L.

Fanelli, S.: On a Conjecture on Maximal Planar Sequences, 371

Faudree, R. J., Rousseau, C. C., Schelp, R. H.: All Triangle-Graph Ramsey Numbers for Connected Graphs of Order Six, 293

Germa, A.: See Bermond, J. C.

Goldsmith, D. L., Manvel, B. and Faber, V.: Separation of Graphs into Three Components by the Removal of Edges, 213

Gould, R. J.: See Chartrand, G.

Gross, J. L. and Harary, F.: Some Problems in Topological Graph Theory, 253

—— and Lomonaco, Jr., S. J.: A Determination of the Toroidal K-Metacyclic Groups, 165

Grötschel, M., Thomassen, C. and Wakabayashi, Y.: Hypotraceable Digraphs, 377

Hall, J. I.: Locally Petersen Graphs, 173

Harary, F.: See Brualdi, R. A.

——: See Gross, J. L.

Heydemann, M. C.: See Bermond, J. C.

Horák, P. and Širáň, J.: Note on a New Coloring Number of a Graph, 111

Jackson, B.: Triangular Embeddings of $K(i-2)n,n,\ldots,n)$, 21
Javedkar, M.: Note on Choudum's "Chromatic Bounds for a Class of Graphs", 265

Kelmans, A. K.: Concept of a Vertex in a Matroid and 3-Connected Graphs, 13
——: Graphs with an Extremal Number of Spanning Trees (*Research Announcement*), 119
Koh, K. M.: See Delorme, C.

Lomonaco, Jr., S. J.: See Gross, J. L.

Maheo, M.: See Delorme, C.
Manvel, B.: See Goldsmith, D. L.
Miller, Z.: See Brualdi, R. A.
Mulder, M.: n-Cubes and Median Graphs, 107
Mynhardt, C. M. and Broere, I.: $\mathcal{G}$-Constructibility of Planar Graphs, 269

Nishizeki, T.: See Asano, T.

Pisanski, T.: Genus of Cartesian Products of Regular Bipartite Graphs, 31
Polimeni, A. D.: See Chartrand, G.
Proskurowski, A.: Centers of Maximal Outerplanar Graphs, 75

Read, R. C. and Wormald, N. C.: Number of Labeled 4-Regular Graphs, 203
Ringeisen, R. D.: See Beineke, L. W.
Rosta, V.: See Burr, S. A.
Rousseau, C. C.: See Faudree, R. J.

Schelp, R. H.: See Faudree, R. J.
Simoncini, L. and Taylor, H.: Subgraphs Smaller than the Girth, 101
Sipka, T. A.: The Orders of Graphs with Prescribed Degree Sets, 301
Širáň, J.: See Horák, P.
Slater, P. J.: Medians of Arbitrary Graphs, 389
——: See Bange, D. W.
Sotteau, D.: See Bermond, J. C.
Sozański, T.: Enumeration of Weak Isomorphism Classes of Signed Graphs, 127
Straight, H. J.: Note on the Cochromatic Number of Several Surfaces, 115
Suffel, C. L.: See Boesch, F. T.

Taylor, H.: See Simoncini, L.
Teo, H. K.: See Delorme, C.
Thomassen, C.: See Grötschel, M.
Thuillier, H.: See Delorme, C.
Truemper, K.: On Whitney's 2-Isomorphism Theorem for Graphs, 43

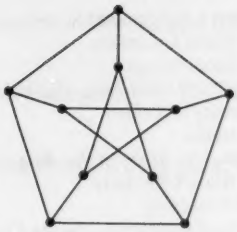
Vidyasankar, K.: Covers and Strong Covers in Directed Bipartite Graphs, 279

Wakabayashi, Y.: See Grötschel, M.
Watanabe, T.: See Asano, T.
White, A. T.: A Note on Conservative Graphs, 423
Wormald, N. C.: See Read, R. C.
Wright, E. M.: The Number of Connected Sparsely Edged Graphs. III. Asymptotic Results, 393

Yap, H. P.: On the Critical Graph Conjecture, 309

Zamfirescu, T.: Three Small Cubic Graphs with Interesting Hamiltonian Properties, 287

Journal of Graph Theory



Volume 4
1980

Frank Harary
Founder-Editor

Gary Chartrand
Linda Lesniak-Foster
Managing Editors

A Wiley-Interscience Publication
John Wiley & Sons, Inc.
New York Chichester Brisbane Toronto

ASSOCIATE EDITORS

Allan J. Schwenk
Department of Mathematics
U.S. Naval Academy
Annapolis, Maryland 21402

Carsten Thomassen
Mathematics Institute
Aarhus University
DK-8000 Aarhus C, Denmark

EDITORIAL BOARD

Jin Akiyama, Nippon Ika University
Mehdi Behzad, University of Northern Iran
Lowell W. Beineke, Purdue University
Claude Berge, Université de Paris VI
Jean-Claude Bermond, Université de Paris--Sud
Frank Boesch, Stevens Institute of Technology
Béla Bollobás, Cambridge University
J. Adrian Bondy, University of Waterloo
H. S. M. Coxeter, University of Toronto
D. M. Cvetković, University of Belgrade
Paul Erdös,* Budapest
Herbert Fleischner, Austrian Academy of Science
Roberto Frucht,* Santa Maria University
Ronald L. Graham, Bell Laboratories
Richard M. Karp, University of California—Berkeley
Piet W. Kasteleyn, University of Leiden
László Lovász, Bolyai Intezete
C. St. J. A. Nash-Williams, University of Reading
E. M. Palmer, Michigan State University
George Polya,* Stanford University
Gerhard Ringel, University of California—Santa Cruz
R. W. Robinson, University of Newcastle
Hoon-Heng Teh, Nanyang University
W. T. Tutte, University of Waterloo
Arthur T. White, Western Michigan University
Beatrice Shube, John Wiley & Sons, *ex officio*

* *Honorary member.*

Allan Wittman Publisher
Ed Barnas Supervising Editor
Allan Ross Production Editor
Esther Gilbert Production Manager
Juan Astudillo Subscription Manager

Published quarterly, one volume per year, by John Wiley & Sons, Inc. Copyright © 1980 by John Wiley & Sons, Inc., 605 Third Ave., New York, New York 10158. All rights reserved. Reproduction or translation of any part of this work beyond that permitted by Sections 107 and 108 of the United States Copyright Law without the permission of the copyright owner is unlawful. Second-class postage paid at New York, New York and at additional mailing offices.

The code and copyright notice appearing at the bottom of the first page of an article in this journal indicate the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients, on the condition that the copier pay for copying beyond that permitted by Sections 107 and 108 of the U.S. Copyright Law. The per-copy fee for each article appears after the dollar sign and is to be paid through the Copyright Clearance Center, Inc., 21 Congress St., Salem MA 01970. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Such permission requests and other permission inquiries should be addressed to the publisher.

Subscription price (1981): $48.00 per volume. Postage and handling outside U.S.A.: $7.00. Please allow four weeks for processing of a change of address. Claims for undelivered copies must be made no later than three months following the month of publication. Missing copies will be supplied when losses have been sustained in transit and where reserve stock will permit.

Journal of Graph Theory

Contents of Volume 4, 1980

Number 1, Spring 1980

Spectral Criterion for Cycle Balance in Networks 1
B. D. Acharya

Concept of a Vertex in a Matroid and 3-Connected Graphs 13
A. K. Kelmans

Triangular Embeddings of $K((i-2)\,n, n, \ldots, n)$ 21
B. Jackson

Genus of Cartesian Products of Regular Bipartite Graphs 31
T. Pisanski

On Whitney's 2-Isomorphism Theorem for Graphs 43
K. Truemper

Bigraphs versus Digraphs via Matrices 51
R. A. Brualdi, F. Harary, Z. Miller

Centers of Maximal Outerplanar Graphs 75
A. Proskurowski

Conservative Graphs 81
D. W. Bange, A. E. Barkauskas, P. J. Slater

Extremal Maximal Uniquely Hamiltonian Graphs 93
C. A. Barefoot, R. C. Entringer

Subgraphs Smaller than the Girth 101
L. Simoncini, H. Taylor

n-Cubes and Median Graphs 107
M. Mulder

Note on a New Coloring Number of a Graph 111
P. Horák, J. Širáň

Note on the Cochromatic Number of Several Surfaces 115
H. J. Straight

Research Announcement

Graphs with an Extremal Number of Spanning Trees 119
A. K. Kelmans

Forthcoming Articles 123

Information for Contributors 125

Number 2, Summer 1980

Enumeration of Weak Isomorphism Classes of Signed Graphs 127
T. Sozanski

On the Crossing Numbers of Products of Cycles and Graphs of Order Four 145
L. W. Beineke, R. D. Ringeisen

Condition for a Tournament Score Sequence to be Simple 157
P. Avery

A Determination of the Toroidal K-Metacyclic Groups 165
J. L. Gross, S. J. Lomonaco

Locally Petersen Graphs 173
J. I. Hall

An Upper Bound for the Path Number of a Graph 189
A. Donald

Number of Labeled 4-Regular Graphs 203
R. C. Read, N. C. Wormald

Separation of Graphs into Three Components by the Removal of Edges 213
D. L. Goldsmith, B. Manvel, V. Faber

Line-Graphical Degree Sequences 219
D. Bauer

On Ramsey Numbers of Forests Versus Nearly Complete Graphs 233
G. Chartrand, R. J. Gould, A. D. Polimeni

A Ramsey-Theoretic Result Involving Chromatic Numbers 241
S. A. Burr

A Note on Generalized Line Graphs 243
P. J. Cameron

Two Sets of Graceful Graphs 247
C. Delorme

Information for Contributors 251

Number 3, Fall 1980

Some Problems in Topological Graph Theory 253
J. L. Gross, F. Harary

Note on Choudum's "Chromatic Bounds for a Class of Graphs" 265
M. Javedkar

$\mathcal{G}$-Constructibility of Planar Graphs 269
C. M. Mynhardt, I. Broere

Covers and Strong Covers in Directed Bipartite Graphs 279
K. Vidyasankar

Three Small Cubic Graphs with Interesting Hamiltonian Properties 287
T. Zamfirescu

All Triangle-Graph Ramsey Numbers for Connected Graphs of Order Six 293
R. J. Faudree, C. C. Rousseau, R. H. Schelp

The Orders of Graphs with Prescribed Degree Sets 301
T. A. Sipka

On the Critical Graph Conjecture 309
H. P. Yap

An Upper Bound on the Length of a Hamiltonian Walk of a Maximal Planar Graph 315
T. Asano, T. Nishizeki, T. Watanabe

Girth in Digraphs 337
J. C. Bermond, A. Germa, M. C. Heydemann, D. Sotteau

Forthcoming Articles 343

Information for Contributors 345

Number 4, Winter 1980

On the Ramsey Multiplicities of Graphs—Problems and Recent Results 347
S. A. Burr, V. Rosta

Realizability of p-Point Graphs with Prescribed Minimum Degree, Maximum Degree, and Line Connectivity 363
F. T. Boesch, C. L. Suffel

On a Conjecture on Maximal Planar Sequences 371
S. Fanelli

Hypotraceable Digraphs 377
M. Grötschel, C. Thomassen, Y. Wakabayashi

A Ramsey Property for Graph Invariants 383
F. Buckley

Medians of Arbitrary Graphs 389
P. J. Slater

The Number of Connected Sparsely Edged Graphs. III. Asymptotic Results 393
E. M. Wright

Cycles with a Chord are Graceful 409
C. Delorme, M. Maheo, H. Thuillier, K. M. Koh, H. K. Teo

On the Number of Cycles of Length 4 in a Maximal Planar Graph 417
A. F. Alameddine

A Note on Conservative Graphs 423
A. T. White